

WHAT IS CLAIMED IS:

1 1. A universal electric magnetic (auxiliary) braking system

2 After the above discussion, we can claim that the following results of the
3 DADAM.

5 For any kind of the vehicles, on and off road, on the track, in the air, on the
6 carrier, under and on water, etc, whatever, there are various vehicles for different,
7 purposes in the world but all of them have the same motion behaviors, which is
8 power input for driving and stopping the motion by braking. According to the
9 proof provided by tribology, we truly need the another additional braking system
10 to perform the critical braking task. The advantages of the DADAM's braking
11 system are as follows:

12 The strength of the flux is controllable, that is, the braking force is the more
13 flexible Controllable. Just only the flux enhanced, the braking force is
14 enlarged positively. In particular, the DADAM with the wide operating
15 bandwidth about over 1 Mhz, it generates the powerful braking force just
16 in time. To implement the function of Anti-Braking Skid (ABS) System is
17 easier to implementation. In this point of view, the DADAM's electric-
18 magnetic braking system is an intrinsic Electric-Magnetic Anti-Braking
19 Skid System or, in short, EMABS.

22 For attenuating the shock, the DADAM's braking system now is the damper
23 for buffering the shock and attenuating it. The temperature is gradually
24 growing up, without thermo shock. It is quite different from the
25 traditional pad (lining) and disk (drum) interaction.

27 The total released kinetic energy under braking has been filled with two
28 containers, DADAM's electric-magnetic and traditional braking systems.
29 Braking force applied to the traditional braking system is depressed and
30 the EMABS is another effective braking system. These include the truth
31 that the distance of braking is shortening.

33 As the original braking system fails, the task is taken over by the DADAM's
34 electric-magnetic braking system.

1 Claim 2 Superabundant Energy Recycling System on Braking

2
3 For any kind of the machines in the world, performing braking is based on
4 the energy consumption. To be more precisely, the process of blocking motion
5 can be seen as the kinetic energy being transformed into thermo energy resulted
6 from the surface of lining (pad) and drum (disc) and just blown into air, in stead
7 of dealing with the energy transformation from the kinetic to electrical energy
8 and recycled on braking. In the case of power being tightly constrained, the
9 recycled superabundant energy helps the car to perform more smooth
10 manipulation. By the way, there are some advantages presenting from this
11 system:

12
13 The energy recycling on braking is straightforwardly implemented and the
14 limitations of the electrical-magnetic braking system removed.

15
16 In nature, there is able to eliminate the side effect of the shortage of the
17 electrical power **on** the DADAM's braking **and** energy recycled system.
18 The disaster of fire resulted from the electrical circuit shortage or the shock
19 of any type of electrical power is truly dropped away.